



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re the Application of:) Group Art Unit: 1646
 Jun Feng et al.) Examiner: Not Yet Assigned
 Serial No.: 10/809,635)
 Filed: March 24, 2004)
 For: DIPEPTIDYL PEPTIDASE)
 INHIBITORS)

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

Sir:

In accordance with 37 CFR §§ 1.97 and 1.98, the items identified in this Information Disclosure Statement ("IDS") are brought to the attention of the Office. The items are listed on the attached form PTO-1449, and copies are included for the Examiner's convenience. As the Office no longer requires copies of U.S. patents and applications, the U.S. copies are not being submitted with this IDS. However, if the Examiner would like copies of the U.S. cited references, Applicants will provide the references upon request. The item listed on the attached form PTO-1449 at "EN" is a non-English language article. In accordance with 37 CFR § 1.98(a)(3)(i), the following is a concise explanation of the relevance of this article:

The article by P.O. Bezuglyi relates to the synthesis of arylsulfonyl hydrazides of 3-R-quinazolone-4-carbonyl-2-acid.

The items identified in this IDS may or may not be "material" pursuant to 37 CFR § 1.56. The submission thereof by Applicant is not to be construed as an admission that any such patent, publication or other information referred to therein is material or considered to be material (37 CFR § 1.97(h)), or even qualifies as "prior art" under 35 USC § 102 with respect to this invention unless specifically designated by Applicants as such.

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INFORMATION DISCLOSURE STATEMENT FILING PROVISION:

- This IDS is believed to be timely in that it is being submitted under 37 CFR § 1.97(b), that is (1) within three months of the filing date of the application, which is not a continued prosecution application filed under § 1.53(d); or (2) within three months of entry of the national stage as set forth in 37 CFR § 1.491; or (3) before the mailing of a first Office action on the merits; or (4) before the mailing of a first Office action after filing a request for continued examination under § 1.114. Thus, no fee is required.
- However, if the undersigned is in error in this regard, Applicant respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable, and charge the fee due under 37 CFR § 1.17(p) to the deposit account referenced below.
- However, if the undersigned is in error in this regard, Applicant respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable, and a statement under 37 CFR § 1.97(e) is included below, thus no fee is required.
- This IDS is being submitted under 37 CFR § 1.97(c), that is after mailing of a first Office action on the merits, but before a Final Action under 37 CFR § 1.113 or a Notice of Allowance under 37 CFR § 1.311.
- The fee due under 37 CFR § 1.17(p) is submitted herewith.
- A statement under 37 CFR § 1.97(e) is included below, thus no fee is required. In the event that this IDS is not received before a Final Action or a Notice of Allowance, then Applicant respectfully requests that the Office consider the filing of these papers to be submitted under 37 CFR § 1.97(d) and charge the fee due under 37 CFR § 1.17(p) to the deposit account below.
- This IDS is being submitted under 37 CFR § 1.97(d), that is after a Final Action under 37 CFR § 1.113 or a Notice of Allowance under 37 CFR § 1.311, but before payment of the issue fee. A statement under 37 CFR § 1.97(e) is included below. The fee due under 37 CFR § 1.17(p) is submitted herewith.

STATEMENT UNDER 37 CFR § 1.97(e):

- Each item contained in this IDS was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS.
- No item contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing

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this statement after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of this IDS.

PAYMENT AND/OR AUTHORIZATION TO CHARGE FEES:

- A check in the amount of _____ is enclosed for the above fee(s).
- Please charge to Deposit Account No. **50-2256** for the above fee(s).

Although Applicants do not believe any fees are required, the Commissioner is authorized to charge any fees required by the filing of these papers to Syrrx's Deposit Account No. **50-2256**.

Respectfully submitted,

SYRRX, INC.

Dated: February 18, 2005

By: David J. Weitz
David J. Weitz
Reg. No. 38,362

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Fax: (858) 550-0992

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO			<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Application Number	10/809,635
			Filing Date	March 24, 2004
			First Named Inventor	Jun Feng
			Group Art Unit	1646
			Examiner Name	Not Yet Assigned
			Attorney Docket Number	SYR-DPP-IV-5004-U
Sheet	1	of	10	



U.S. PATENT DOCUMENTS				
Examiner Initials *	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date/ Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
/KH/	AA	US1974/3822135	07-09-1974	Pilgram et al.
	AB	US1996/5512549	04-30-1996	Chen et al.
	AC	US1996/5580979	12-03-1996	Bachovchin
	AD	US1997/5614492	03-25-1997	Habener
	AE	US2006/156739	12-5-2000	Griffin et al.
	AF	US2006/6166063	12-26-2000	Villhauer
	AG	US2001/6258597-B1	07-10-2001	Bachovchin
	AH	US2001/0020005-A1	09-06-2001	Demuth et al.
	AI	US2001/6303661-B1	10-16-2001	Demuth et al.
	AJ	US2001/6319693-B1	11-20-2001	Demuth et al.
	AK	US2001/0051646-A1	12-13-2001	Demuth et al.
	AL	US2002/0049153-A1	04-25-2002	Bridon et al.
	AM	US2002/0049164-A1	04-25-2002	Demuth et al.
	AN	US2002/6360396-B2	04-30-2002	Kanstrup et al.
	AO	US2002/0082427-A1	06-27-2002	Demuth et al.
	AP	US2002/6448045-B1	09-10-2002	Levine et al.
	AQ	US2002/0198242-A1	12-26-2002	Demuth et al.
	AR	US2002/0198380-A1	12-26-2002	Beltz et al.
	AS	US2002/6500604-B2	12-31-2002	Demuth et al.
	AT	US2003/0008925-A1	01-09-2003	Demuth et al.
	AU	US2003/6548481-B1	04-15-2003	Demuth et al.
	AV	US2003/0009260-A2	05-15-2003	Demuth et al.
	AW	US2003/0119750-A1	06-26-2003	Demuth et al.
	AX	US2003/0130199-A1	07-10-2003	von Hoersten et al.
	AY	US2003/0134602-A1	07-17-2003	Demuth et al.
	AZ	US2003/0135023-A1	07-17-2003	Demuth et al.
	BA	US2003/0148961-A1	08-07-2003	Heiser et al.
	BB	US2003/0153509-A1	08-14-2003	Bachovchin et al.
	BC	US2003/0162820-A1	08-28-2003	Demuth et al.
	BD	US2003/0166578-A1	09-04-2003	Arch et al.
	BE	US2003/6620910-B1	09-16-2003	Calas et al.
	BF	US2003/0176357-A1	09-18-2003	Pospislik et al.
	BG	US2003/0199451-A1	10-23-2003	Mogensen et al.
	BH	US2003/0199672-A1	10-23-2003	Knudsen et al.

Examiner Signature	/Kahsay Habte/	Date Considered	08/14/2008
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*EXAMINER: Initial your response considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449A/PTO				<i>Complete if Known</i>	
				Application Number	10/809,635
				Filing Date	March 24, 2004
				First Named Inventor	Jun Feng
				Group Art Unit	1646
				Examiner Name	Not Yet Assigned
Sheet	2	of	10	Attorney Docket Number	SYR-DPP-IV-5004-U

/KH/	BI	US2003/0236272-A1	12-25-2003	Richard David Carr	
	BJ	US2004/0703238-B2	03-09-2004	Bachovchin	
	BK	US2004/0051471-A1	03-18-2004	Jensen et al.	
	BL	US2004/0058876-A1	03-25-2004	Hoffmann et al.	
	BM	US2004/0132732-A1	07-08-2004	Han et al.	
	BN	US2004/0167191-A1	08-26-2004	Demuth et al.	
	BO	US2004/0171555-A1	09-02-2004	Demuth et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)					
/KH/	BP	FR 2.162.106 (English Abstract-1973)		11-30-1972	Amschler et al.		
	BQ	WO 89/0701 .		11-16-1989	BASF		
	BR	EP 0378255-A2		07-18-1990	Janssen Pharmaceutica		
	BS	GB 2230527-A .		10-24-1990	Imperial Chemical Industries Plc		
	BT	WO 91/12001		08-22-1991	Merck & Co., Inc.		
	BU	WO 93/21162		01-28-1993	Nissan Chemical Industries, Ltd.		
	BV	WO 93/08259 (A2)		04-29-1993	New England Medical Center Hospitals, Inc.		
	BW	WO 93/08259 (A3)		04-29-1993	New England Medical Center Hospitals, Inc.		
	BX	EP 0547442-A1		06-23-1993	E.R. Squibb & Sons, Inc.		
	BY	WO 94/03055 .		02-17-1994	U.S. Government, Secty. HHS		
	BZ	EP 0587377-A2		03-16-1994	Eli Lilly and Company		
	CA	WO 95/35031 .		12-28-1995	La Trobe University		
	CB	WO 96/32384		10-17-1996	Taiho Pharmaceutical Co., Ltd.		
	CC	WO 96/38550 .		12-05-1996	Dana-Farber Cancer Institute, Inc.		
	CD	WO 97/40832		11-06-1997	Hans-Knoll-Institut Fur Naturstoff		
	CE	JP 9295977 .		11-18-1997	Terumo Corp.		
	CF	WO 98/00439		01-08-1998	Trustees of Tufts College		
	CG	WO 98/24780 .		06-11-1998	Amgen Inc.		
	CH	WO 98/16884		04-08-1999	Point Therapeutics, Inc.		
	CI	WO 99/38501 .		08-05-1999	Trustees of Tufts University		

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Substitute for form 1449A/PTO			<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Application Number	10/809,635
			Filing Date	March 24, 2004
			First Named Inventor	Jun Feng
			Group Art Unit	1646
			Examiner Name	Not Yet Assigned
Sheet	3	of	10	Attorney Docket Number
			SYR-DPP-IV-5004-U	

/KH/	CJ	WO 99/50249	10-07-1999	DuPont Pharmaceuticals Company		
	CK	WO 99-14131 .	12-02-1999	Probiodrug		
	CL	WO 99/67278	12-29-1999	Pro-Biodrug		
	CM	WO 99/67279	12-29-1999	Pro-Biodrug		
	CN	WO 00/07617	02-17-2000	Novo Nordisk		
	CO	WO 00/09666 .	02-24-2000	U.S. Government, Secty HHS		
	CP	WO 00/15211	03-23-2000	Akensis Pharmaceuticals, Inc.		
	CQ	WO 00/76986-A1 .	04-11-2000	Probiodrug		
	CR	WO 00/34241	06-15-2000	Novartis AG		
	CS	WO 00/47219 .	08-17-2000	Ontogeny, Inc.		
	CT	WO 00/53171	09-14-00	Molteni L, E C, Del Fratelli Alitti Societa' Di Esercizio S.P.A.		
	CU	. WO 00/57721 .	10-05-2000	Akensis Pharmaceuticals, Inc.		
	CV	WO 01/14318-A2	03-01-2001	Probiodrug		
	CW	WO 01/34594-A1 .	05-17-2001	Guilford Pharmaceuticals, Inc.		
	CX	WO 01/52825-A2	07-26-2001	Novartis AG		
	CY	WO 01/56988-A1 .	08-09-2001	Kirin Beer Kabushiki Kaisha		
	CZ	WO 01/70729-A1	09-27-2001	Sanofi-Synthelabo		
	DA	WO 01/97808-A1 .	12-27-2001	Smithkline Beecham PLC		
	DB	WO 02/34242-A2	05-02-2002	Probiodrug AG		
	DC	WO 02/34243-A2 .	05-02-2002	Probiodrug AG		
	DD	WO 02/083109-A1	10-24-2002	Ferring BV		
	DE	JP 2002/338466 .	11-27-2002	Tanabe Seiyaku Co Ltd		
	DF	WO 03/002593-A2 .	01-09-2003	Probiodrug AG		
	DG	WO 03/002595-A2 .	01-09-2003	Probiodrug AG		
	DH	WO 03/002596-A2 .	01-09-2003	Probiodrug AG		
	DI	WO 03/016335-A2 .	02-27-2003	Probiodrug AG		
	DJ	WO 03/022871-A2	03-20-2003	Probiodrug AG		
	DK	WO 03/026652-A1 .	04-03-2003	Bristol-Myers Squibb Company		
	DL	WO 03/030946-A1	04-17-2003	Novartis AG		
	DM	WO 03/033524-A2 .	04-24-2003	Probiodrug AG		
	DN	JP 2003/128551	05-08-2003	Sankyo Co LTD		
	DO	WO 03/040174-A2 .	05-15-2003	Probiodrug AG		
	DP	WO 03/045228-A2	06-05-2003	Trustees of Tufts College		
	DQ	WO 03/045977-A2 .	06-05-2003	Trustees of Tufts College		
	DR	WO 03/048081-A2	06-12-2003	Bristol-Myers Squibb Company		
	DS	WO 03/048158-A1 .	06-12-2003	Bristol-Myers Squibb Company		
	DT	WO 03/057200-A2	07-17-2003	Novo Nordisk		

Examiner Signature	/Kahsay Habte/	Date Considered	08/14/2008
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Application Number	10/809,635
			Filing Date	March 24, 2004
			First Named Inventor	Jun Feng
			Group Art Unit	1646
			Examiner Name	Not Yet Assigned
Sheet 4 of 10			Attorney Docket Number	SYR-DPP-IV-5004-U

/KH/	DU	WO 03/063903-A2 -	08-07-2003	Probiodrug AG		
	DV	WO 03/072556-A1	09-04-2003	Probiodrug AG		
	DW	WO 03/082898-A2 -	10-09-2003	Probiodrug AG		
	DX	WO 03/092605-A2	11-13-2003	Trustees of Tufts College		
	DY	WO 03/099279-A1 -	12-04-2003	Novartis AG		
	DZ	WO 03/099818-A1	12-04-2003	Chiron Corporation		
	EA	WO 03/106416-A2 -	12-24-2003	Smithkline Beecham Corporation		
	EB	WO 2004/017989-A1	03-04-2004	Probiodrug AG		
	EC	JP 2004/099600-A -	04-02-2004	Sankyo Co. Ltd.		
	ED	WO 2004/013137-A2	04-15-2004	Probiodrug AG		
	EE	JP 2004/123738-A -	04-22-2004	Takeda Chem Ind Ltd		
	EF	WO 2004/037176-A2	05-06-2004	Bristol-Myers Squibb Company		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
/KH/	EG	ARGAUD, DORIANE et al., Metformin decreases gluconeogenesis by enhancing the pyruvate kinase flux in isolated rat hepatocytes, European J. Biochem. 213, 1341-1348 (1993).		T ²
	EH	ASHCROFT, STEPHEN J.H. et al., Structure-activity relationships of alloxan-like compounds derived from uric acid, Br. J. Pharmac. (1986), 89 pp. 469-472.		
	EI	BAL, GUNTHER, Dipeptidyl Peptidase IV and Prolyl Oligopeptidase: Design, Synthesis and Evaluation of Substrates and Inhibitors, (2002) Universiteit Antwerpen.		
	EJ ..	BARAKAT, S.E.S., Synthesis and hypoglycemic activity of some new 3-[4-[[[(cydohexylamino) carbonyl] amino]sulfonyl]phenyl]-4(3H)-quinazolinones, Az. J. Pharm. Sci., Vol. 25, (2000), pp. 48-57.		
	EK	BARAKAT, S.E.S., Synthesis and Hypoglycemic Activity of Some New 4(3H)-Quinazolinone Analogues, Saudi Pharmaceutical Journal, Vol. 8, No. 4 (2000) pp. 198-204.		
	EL -	BAKER, B.R. et al., Irreversible Enzyme Inhibitors. On the Mode of Pyrimidine Binding of 5-alkyl and 5-Arylpyrimidines to Dihydrofolic Reductase (1,2), Journal of Heterocyclic Chemistry Vol. 4 (1967) pp. 39-48.		
	EM	BELGODERE, ELENA et al., Synthesis of Substituted Pyrimidines, Study of the Structure and of the Tautomeric Equilibria, (1976) Chem. Abstracts, Columbus, OH Vol. 85 No. 9.		
	EN	BEZUGLYI, P.O. et al., Synthesis of arylsulfonyl hydrazide of 3-R-quinazolone-4-carbonyl-2-acid, Pharmaceutical Journal (1979), pp. 70-71.		

Examiner Signature	/Kahsay Habte/	Date Considered	08/14/2008
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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			Group Art Unit	1646
			Examiner Name	Not Yet Assigned
Sheet	5	of	10	Attorney Docket Number
SYR-DPP-IV-5004-U				

/KH/	EO	BHADURI, A.P. et al., Urinary Metabolite of 2-Piperazine-3-(H)-4-Quinazolone (Centipiperalone), A Potent Blood Sugar Lowering Agent, Indian J. Biochem. Biophys., Vol. 12 (1975), pp. 413-414.	
	EP	BOURAS, MOHAMMED, et al., Metabolism of enterostatin in rat intestine, brain, membranes and serum: differential involvement of proline-specific peptidases, Peptides, Vol. 16, No. 3, (1995), pp. 399-405.	
	EQ	BRUN, JEAN-FREDERIC, et al., Effects of Oral Zinc Gluconate on Glucose Effectiveness and Insulin Sensitivity in Humans, Biological Trace Element Research Vol. 47 (1995), pp. 385-391.	
	ER	BUCKLEY, DI, Analysis of the Degradation of Insulintropin [GLP-1 (7-37)] In Human Plasma and Production of Degradation Resistant Analogs.	
	ES	CHATTERJEE, A.K. et al., Effect of Centipiperalone in Insulin Deficient Diabetes, Indian Journal of Experimental Biology Vol. 18 (1980), pp. 1005-1008.	
	ET	CHATTERJEE, A.K. et al., Effect of Centipiperalone, a New Hypoglycemic Agent on Insulin Biosynthesis & Release from Isolated Pancreatic Islets of Rat, Indian Journal of Experimental Biology Vol. 20 (1981) pp.270-272.	
	EU	COPPOLA, GARY M. et al., 1-Aminomethylisoquinoline-4-carboxylate as Novel Dipeptidylpeptidase IV Inhibitors, Bioorganic & Medicinal Chemistry Letters Vol. 10 (2000), pp. 1555-1558.	
	EV	DEACON, CAROLYN F. et al., Degradation of Glucagon-Like Peptide 1 In Vitro Yields an N-Terminally Truncated Peptide That is a Major Endogenous Metabolite in Vivo, Journal of Clinical Endocrinology and Metabolism Vol. 80, No. 3 (1995), pp. 952-957.	
	EW	DEACON, CAROLYN F. et al., Both Subcutaneously and Intravenously Administered Glucagon-Like Peptide 1 Are Rapidly Degraded From the NH ₂ -Terminus in Type II Diabetic Patients and in Healthy Subjects, Diabetes, Vol. 44 (1996), pp. 1125-1131.	
	EX	DEACON, CAROLYN F. et al., Dipeptidyl peptidase IV Inhibition Influences GLP-1 Metabolism in Vivo, Regulatory Peptides Vol. 64 Issues 1-3 (1996) p.30.	
	EY	DEACON, CAROLYN F. et al., Dipeptidyl peptidase IV Inhibition Potentiates the Insulintropic Effect of Glucagon-Like Peptide 1 in the Anesthetized Pig, Diabetes, Vol. 47 (1998), pp. 764-769.	
	EZ	DEACON, CAROLYN F. et al., Dipeptidyl peptidase IV Inhibition as an Approach to the Treatment and Prevention of Type 2 Diabetes: a Historical Perspective, Biochemical and Biophysical Research Communications 294 (2002), pp. 1-4.	
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			First Named Inventor	Jun Feng	
			Group Art Unit	1646	
			Examiner Name	Not Yet Assigned	
Sheet	6	of	10	Attorney Docket Number	SYR-DPP-IV-5004-U

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	FQ .	KIMURA, TOSHIKIRO et al., Oral Administration of Insulin as Poly(Vinyl Alcohol)-Gel Spheres in Diabetic Rats, <i>Biological & Pharmaceutical Bulletin</i> , Vol. 19, No. 6 (1996), 897-900.	
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/KH/	FS	KUSAR, MIHAEL et al., Diethyl N,N-Dimethylaminomethylenemalonate in the Synthesis of Fused Heterocyclic Systems, <i>Heterocyclic Chem.</i> , 33 (1996) pp. 1041-1046.	
	FT	LI JIINPING, et al., Pernolybtydyl and Pertungstate—Potent Stimulators of Insulin Effects in Rat Adipocytes: Mechanism of Action, <i>Biochemistry</i> , 34 (1995) 6218-6225.	
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	HM	WIEDEMAN, PAUL E. et al., Dipeptidyl peptidase IV inhibitors for the treatment of impaired glucose tolerance and type 2 diabetes, Current Opinion in Investigational Drugs, Vol. 4, No. 4 (2003), pp. 412-420.	
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